

**RAC15-K/480**

The RAC15-K/480 series sets a benchmark of compactness for ultra-wide input AC/DC power supplies that are covering worldwide-extended mains conditions for single and for phase-to-phase installations. Its leading thermally effective power yield of 4 Watts per inch<sup>3</sup> at -40°C to 60°C still air, over their entire rated input voltage range of 85 to 528Vac supports full performance for harsh industrial conditions of over voltage category OVC III and pollution degree PD3 without limitations on operating altitudes to 5000m. The modules are rated as limited power source LPS for usage up to 90°C by international safety compliance reports to UL/IEC/EN 62368; IEC61010; EN60335 with just the addition of an external fuse. With plenty of margin EMC compliance limits of EN55035 and EN55032 class B with floating load and in PE-referenced output configurations by just adding a single 45mH CMC. These silicone-free encapsulated modules are built extremely compact with a footprint of 1.6"x2" and 61.5mm diameter to fit on printed circuit boards with extended design flexibility. Global safety certifications ensure fast time-to-market when integrated into applications for markets such as Smart Grid, Smart Metering, Renewable Energy, sensors and actuators, or IoT applications.

**Unique selling proposition:**

85-528VAC input range // Highest available thermally effective power yield // OVC III; PD3 overvoltage category and pollution degree // Operating temperature from -40°C to 90°C; up to 70°C full load

**Target customer:**

EV-charger housekeeping power • Industrial monitoring and automation • Measurement and communication terminals • Tiny streetlight control units • Industrial automation equipment • IoT or industrial 4.0 • Smart energy • Street light control

**Target applications examples:**

EV-charger housekeeping power • Industrial monitoring and automation • Measurement and communication terminals • Tiny streetlight control units • Industrial automation equipment • IoT or industrial 4.0 • Smart energy • Street light control

**Main features:**

High power density // 5000m operating altitude // Industry standard pinout [P12] // Excellent EMI performance - no external filters for EN55032 class "B"; floating outputs // silicone free potting compounds // 4kV isolation primary to secondary // No load power consumption <0.3W // LPS limited power source

**Global sales release date:**

5-October-2022

**Web release date:**

1-June-2022

**Available from sample stock:**

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**RAC25-K/480**

The RAC25-K/480 series AC/DC power supplies with ultra-wide input range of 85-528VAC are specially designed for harsh industrial conditions of overvoltage category OVC III and pollution degree PD3 in single-phase and phase-to-phase installations. The series provides 25 Watts up to 70°C without derating and are certified for operation over a range of -40°C to 90°C.

Completed by just an external fuse, these encapsulated modules on a compact 1.8" x 3.2" footprint with 30mm profile offer LPS limited outputs with surge immunity to level 3 and emission class B EMC compliance in potential free configuration or with just an additional CMC of 45mH when its output gets referenced to ground. These silicone-free encapsulated modules are equipped with threaded inserts for enhanced requirements to shock and vibrations. Global safety certifications to UL/IEC/EN 62368; IEC61010; EN60335 ensure fast time-to-market when integrated into applications.

**Unique selling proposition:**

85-528VAC input // OVC III, PD3 overvoltage category and pollution degree // Operating temperature from -40°C to 90°C, up to 70°C full load

**Target customer:**

EV-charger housekeeping power • Industrial monitoring and automation • Measurement and communication terminals • Tiny streetlight control units • Industrial automation equipment • IoT or industrial 4.0

**Target applications examples:**

EV-charger housekeeping power • Industrial monitoring and automation • Measurement and communication terminals • Tiny streetlight control units • Industrial automation equipment • IoT or industrial 4.0

**Main features:**

High power density // 5000m operating altitude // Industry standard footprint // Excellent EMI performance - no external filters for EN55032 class "B", floating outputs // Silicone free potting compounds // 4kV isolation primary to secondary // No load power consumption <0.3W // LPS limited power source

**Global sales release date:**

5-October-2022

**Web release date:**

1-June-2022

**Available from sample stock:**

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